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DSA Series by Shradha Ma'am

Series Link : DSA Series by Shradha Ma'am

	Mark as Done		Question	Link	Difficulty	Video SOLUTION	Companies	Pre-requisites
ARRAYS	☐	1	Majority Element	Problem Link	Easy	Solution Link	Amazon Google	
	☐	2	Repeat & missing number	Problem Link	Easy	Solution Link	Amazon	Hashing
	☐	3	Merge 2 sorted array without xtra space	Problem Link	Easy	Solution Link	Amdocs Brocade Goldman Sachs Juniper Networks	Sorting
	☐	4	Single Number	Problem Link	Easy	Solution Link		
	☐	5	Stock Buy & Sell	Problem Link	Easy	Solution Link	Amazon DEShaw Directi Flipkart Goldman Sachs Int	
	☐	6	Kadane's Algorithm	Problem Link	Medium	Solution Link	Microsoft Facebook	
	☐	7	Pow xn	Problem Link	Medium	Solution Link		
	☐	8	Container with most water	Problem Link	Medium	Solution Link	Flipkart Dunzo	
	☐	9	Sort array of 0s, 1s & 2s	Problem Link	Medium	Solution Link	Microsoft Amazon MakeMyTrip	Sorting
	☐	10	3Sum	Problem Link	Medium	Solution Link	Adobe Amazon Microsoft Morgan Stanley Samsung	Hashing
	☐	11	4Sum	Problem Link	Medium	Solution Link		Hashing
	☐	12	Search a 2D matrix	Problem Link	Medium	Solution Link		2D Array
	☐	13	Next permutation	Problem Link	Medium	Solution Link	Adobe GoldmanSachs Uber	Sorting
	☐	14	Merge overlapping intervals	Problem Link	Medium		Google	Sorting
	☐	15	Longest substring without repeating	Problem Link	Medium		MorganStanley Amazon	String
	☐	16	Set matrix zeroes	Problem Link	Medium		Microsoft Amazon	Sets
	☐	17	Word search	Problem Link	Medium		Ola GoldmanSachs Google	Recursion
	☐	18	Product of array except itself	Problem Link	Medium	Solution Link	Amazon DEShaw Intuit MorganStanley Flipkart	
	☐	19	Subarray sum equals k	Problem Link	Medium			Hashing
	☐	20	Find Duplicate	Problem Link	Medium	Solution Link	Amazon D-E-Shaw Flipkart Paytm Qualcomm Zoho	LL Cycles
	☐	21	Count Inversions	Problem Link	Medium / Hard		Adobe Amazon BankBazaar Flipkart Microsoft Mynt	Merge Sort
	☐	22	Trapping Rainwater	Problem Link	Hard	Solution Link	Samsung	
	☐	23	Sliding window maximum	Problem Link	Hard	Solution Link	Amazon Directi Flipkart Microsoft Google	Hashing
	☐	24	Reverse pairs	Problem Link	Hard			Merge Sort
	☐	25	Largest rectangle in a histogram	Problem Link	Hard	Solution Link		
BINARY SEARCH	☐	1	Search in rotated sorted	Problem Link	Medium	Solution Link	Microsoft Google Adobe Amazon D-E-Shaw Flipkart	
	☐	2	Peak index in mountain array	Problem Link	Medium	Solution Link		
	☐	3	Single element in sorted array	Problem Link	Medium	Solution Link		
	☐	4	Allocate Minimum Pages (Book Allocation)	Problem Link	Medium	Solution Link	Google Infosys Codenation Amazon Microsoft	
	☐	5	Painter's Partition	Problem Link	Medium	Solution Link		
	☐	6	Aggressive cows	Problem Link	Medium	Solution Link	Adobe	
	☐	7	Median of 2 Sorted Arrays	Problem Link	Hard		Amazon Samsung Microsoft Google	
STRINGS	☐	1	Valid Palindrome	Problem Link	Easy	Solution Link	Amazon Cisco DEShaw Facebook FactSet MorganSta	
	☐	2	Longest Common Prefix	Problem Link	Easy		Adobe Blinkit Dunzo	
	☐	3	Valid Anagram	Problem Link	Easy		Google Adobe Flipkart Nagarro Media.net Directi	
	☐	4	Reverse Words in String	Problem Link	Medium	Solution Link		
	☐	5	Remove All Occurrences of String	Problem Link	Medium	Solution Link		
	☐	6	Permutation in String	Problem Link	Medium	Solution Link	Adobe GoldmanSachs Uber	
	☐	7	String Compression	Problem Link	Medium	Solution Link		
	☐	8	Group Anagrams	Problem Link	Medium		Samsung Adobe Amazon	
	☐	9	Minimum Window Substring	Problem Link	Hard		Amazon Google MakeMyTrip Streamoid Technologi	
	☐	10	Kmp Algorithm	Problem Link	Hard			
	☐	11	Robin Karp	--concept--	Hard			
RECURSION & BACKTRACKING	☐	1	Combination Sum I	Problem Link	Medium	Solution Link	Adobe Amazon Microsoft oracle, DE shaw ,salesforc	
	☐	2	Combination Sum II	Problem Link	Medium		Adobe Amazon Microsoft goldmann sach oracle	
	☐	3	Palindrome Partitioning	Problem Link	Medium	Solution Link	meta ,adobe, Infosys, Walmart Labs, Amazon Micro	
	☐	4	Knights Tour	Problem Link	Medium		google,amazon , microsoft, oracle, meta,TCS, apple,	
	☐	5	M Coloring	Problem Link	Medium		google , amazon, microsoft, meta , intuit, citadel, go	
	☐	6	Rat in a Maze	Problem Link	Medium	Solution Link	Amazon	
	☐	7	Subsets II	Problem Link	Medium	Solution Link	google, amazon, microsoft, meta , adobe, apple ,TCS	
	☐	8	Merge Sort	Problem Link	Medium		Google, amazon , meta , microsoft	
	☐	9	N Queens	Problem Link	Hard	Solution Link	Microsoft Amazon	
	☐	10	Sudoku Solver	Problem Link	Hard	Solution Link	Amazon, TCS , Apple, Meta ,Infosys , Oracle, Adobe,	
	☐	11	Count Inversions	Problem Link	Hard		Google, amazon , salessforce	
LINKED LIST	☐	1	Reverse a LL	Problem Link	Easy	Solution Link	google, meta , apple , microsoft, amazon , oracle, a	
	☐	2	Middle of LL	Problem Link	Easy	Solution Link	amazon, meta ,google, goldman sachs, qualcomm,i	
	☐	3	Merge 2 Sorted LL	Problem Link	Easy	Solution Link	Accolite Amazon Belzabar Brocade FactSet Flipkart	
	☐	4	Check if LL Is Palindrome or Not	Problem Link	Easy		amazon, meta ,google, goldman sachs, cisco , sams	
	☐	5	Detect Cycle in LL	Problem Link	Easy	Solution Link	google, meta , microsoft, amazon, oracle, paytm, ap	
	☐	6	Remove Cycle in LL	Problem Link	Medium	Solution Link	amazon, meta , apple,	
	☐	7	Flatten LL	Problem Link	Medium	Solution Link	google, amazon, meta ,microsoft , qualcomm, oracle,	
	☐	8	Clone LL with Random Pointers	Problem Link	Medium	Solution Link	meta , amazon, microsoft , google, intel , walmart la	
	☐	9	Add 2 Numbers	Problem Link	Medium		google, amazon, meta , microsoft, oracle, Tejas netwo	
	☐	10	Reverse Linked List 2	Problem Link	Medium		Google , amazon, meta , microsoft, adobe, uber	
	☐	11	LRU Cache	Problem Link	Medium	Solution Link	Nvidia , Google, Meta , Amazon, Microsoft, Oracle, Ad	
	☐	12	Rotate a LL	Problem Link	Medium		Amazon, Google, Meta , Microsoft ,Salesforce ,Infosys	
	☐	13	Reverse Nodes in K Groups	Problem Link	Hard	Solution Link	google, amazon, meta , microsoft, apple, uber, adobe,	
	☐	1	Implement Stack using Queue	Problem Link	Easy	Solution Link	google , meta , amazon, microsoft, adobe, oracle, o	

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STACK & QUEUE	☐	2	Implement Queue using Stack	Problem Link	Easy	Solution Link	amazon, google, microsoft, adobe, oracle , netflix , me	
	☐	3	Next Greater Element I	Problem Link	Easy	Solution Link	amazon, meta , swiggy , microsoft , google, apple, m	
	☐	4	Valid Parenthesis	Problem Link	Easy	Solution Link	Google , meta , amazon, linkedin , intuit , visa , IBM	
	☐	5	1st Non Repeating in Stream	Problem Link	Easy	Solution Link	amazon, goldman sach, google, apple, meta , micro	
	☐	6	Reverse 1st K Elements of Queue	Problem Link	Easy		Microsoft , amdocs, amazon	
	☐	7	Time needed to Buy Tickets	Problem Link	Easy		uber, amazon, microsoft, google, ,meta	
	☐	8	Next Greater Element II	Problem Link	Medium	Solution Link	amazon, uber	
	☐	9	Previous Smaller Element	Problem Link	Medium	Solution Link	amazon, meta , microsoft, apple, visa , oracle, intuit	
	☐	10	Celebrity Problem	Problem Link	Medium	Solution Link	linkedin, meta, microsoft, amazon, uber, salesforce,	
	☐	11	Get Min Element from Stack	Problem Link	Medium	Solution Link	Google, meta, amazon, saleforce, intuit , paypal, adob	
	☐	12	Circular Tour / Gas Station	Problem Link	Medium	Solution Link	amazon, microsoft, goldman sachs, intuit ,IBM	
	☐	13	Rotten Oranges	Problem Link	Medium		amazon, google, microsoft, meta, oracle, adobe, cis	
	☐	14	Stock Span	Problem Link	Medium	Solution Link	Amazon , google, Microsoft, Oracle, Samsung , Meta	
	☐	15	Max Area in Histogram	Problem Link	Hard	Solution Link	Adobe, apple, Meta , Amazon, google, microsoft	
BINARY TREES	☐	1	Inorder	Problem Link	Easy	Solution Link	google , amazon , meta , microsoft ,adobe, uber	
	☐	2	Preorder	Problem Link	Easy	Solution Link	salesforce, amazon, microsoft, meta , google ,adobe	
	☐	3	Postorder	Problem Link	Easy	Solution Link	Amazon ,meta , google, apple, adobe	
	☐	4	Symmetric Tree	Problem Link	Easy		Amazon , Google, Oracle, Apple,meta,Uber,Intuit ,A	
	☐	5	Minimum Distance between Nodes	Problem Link	Easy	ynP1nA&list=PLfqMhTWNE	amazon, google, meta , linkedin , adobe, microsoft	
	☐	6	Are 2 Trees Identical or Not	Problem Link	Easy	Solution Link	meta , google , microsoft,	
	☐	7	Morris Inorder Traversal	Problem Link	Easy	Solution Link	Google,amazon, meta ,apple, adobe, TCS, flipkart , ub	
	☐	8	Diameter	Problem Link	Easy	Solution Link	google, amazon, meta , microsoft , apple, adobe, uber	
	☐	9	Check if Tree is Height Balanced	Problem Link	Easy		amazon , meta , amazon , google ,visa , oracle , TCS	
	☐	10	Subtree of Another Tree	Problem Link	Easy	Solution Link	Amazon google microsoft adobe uber apple	
	☐	11	Check if BT Mirror of itself or not	Problem Link	Easy		Amazon, google, meta, uber , morgan stanley , ebay	
	☐	12	Top View of a Tree	Problem Link	Medium	Solution Link	amazon, google, meta, linkedin , apple, adobe,micro	
	☐	13	Bottom View of a Tree	Problem Link	Medium		meta , amazon, google , uber, oracle, flipkart , JP mo	
	☐	14	Level Order	Problem Link	Medium		josh technology , amazon, google, adobe	
	☐	15	Kth Level of Tree	Problem Link	Medium	Solution Link	meta , google, amazon, adobe, microsoft	
	☐	16	LCA	Problem Link	Medium	Solution Link	meta , amazon , google, linkedin , intuit , oracle,ado	
	☐	17	Transform to Sum Tree	Problem Link	Medium	Solution Link	SAP , Amazon, Ebay , Microsoft	
	☐	18	Construct BT from Inorder & Pre order	Problem Link	Medium	Solution Link	Amazon, Microsoft, meta , adobe, uber , VMware ,	
	☐	19	Construct BT from Inorder & Post order	Problem Link	Medium		Google, amazon, microsoft , adobe, bloomberg	
	☐	20	Flatten BT to LL	Problem Link	Medium	Solution Link	Google, meta , amazon ,microsoft, Myntra , adobe, ora	
	☐	21	Max Width of BT	Problem Link	Medium	Solution Link	Amazon , Meta , Uber, Microsoft, Uber , Adobe,Apple	
	☐	22	Zig Zag Traversal of BT	Problem Link	Medium		Amazon , meta, microsoft, google,oracle, Adobe, Wa	
	☐	23	Max Path Sum	Problem Link	Hard		Google, Meta , Amazon , Oracle, Salesforce, Goldma	
	☐	24	Kth Ancestor	Problem Link	Hard		Google , Amazon ,Microsoft	
BST	☐	1	Kth largest in BST	Problem Link	Easy		Meta , Amazon, Google , Adobe, Atlassian , Salesfor	
	☐	2	Sorted Array to Balanced BST	Problem Link	Easy	Solution Link	Amazon , Google, Meta, Apple, Adobe , Airbnb , Sams	
	☐	3	Validate BST	Problem Link	Medium	Solution Link	Amazon, Google, Meta, Salesforce, IBM , Adobe, Cita	
	☐	4	Kth Smallest in BST	Problem Link	Medium	Solution Link	Accolite Amazon Google Uber Microsoft Meta	
	☐	5	LCA in BST	Problem Link	Medium	Solution Link	Meta, Amazon, Linkedin , Bloomberg, Oracle, Samsu	
	☐	6	Populate Next Right Pointers	Problem Link	Medium	Solution Link	Meta , Amazon, Walmart Labs, Flipkart, Saleforce,Adc	
	☐	7	Recover BST	Problem Link	Medium	Solution Link	Microsoft, amazon, google, oracle, adobe	
	☐	8	Construct from Preorder	Problem Link	Medium	Solution Link	Adobe, Meta , Google, Microsoft	
	☐	9	BST Iterator	Problem Link	Medium	Solution Link	Meta , Amazon, Microsoft, Linkedin , Adobe	
	☐	10	Flatten BST to Sorted list	Problem Link	Medium		Meta , microsoft, Amazon, Nvidia	
	☐	11	Inorder Successor	Problem Link	Medium	Solution Link	Amazon , Google, meta , Citadel, Nvidia,Linkedin ,ub	
	☐	12	Inorder Predecessor	Problem Link	Medium	Solution Link	Microsoft , Bloomberg	
	☐	13	Largest BST in BT	Problem Link	Hard	Solution Link	Microsoft , Meta	
	☐	14	Serialize & Deserialize BST	Problem Link	Hard		Amazon, Google, Meta , Oracle, Flipkart , Adobe, Micr	
	☐	15	Merge 2 BSTS	Problem Link	Hard	Solution Link	Meta, Microsoft	
HEAPS	☐	1	Merge K Sorted Arrays	https://leetcode.com/problen	Easy		google, meta , amazon, microsoft, HCL , Cisco, IBM ,	
	☐	2	K most Frequent Elements	https://leetcode.com/problen	Medium		Meta , Amazon, Google , Microsoft , Oracle, Goldma	
	☐	3	Heap Sort	https://leetcode.com/problen	Medium		Adobe , TCS , Amazon, Google, Meta , hive, Infosys ,	
	☐	4	Kth Smallest Element	https://leetcode.com/problen	Medium		Amazon, Meta , apple, phonepe , salesforce	
	☐	5	Median from Stream	https://leetcode.com/problen	Hard		Google, Amazon, Meta, Apple, Microsoft, Pinterest	
	☐	6	Smallest Range in K Sorted List	https://leetcode.com/problen	Hard		Amazon, Phonepe , Meta , Microsoft , Flipkart , DE sh	
TRIE	☐	1	Longest Common Prefix	https://leetcode.com/problen	Easy		amazon, TCS, Visa, Accenture, Infosys , Deloitte , Go	
	☐	2	Word Break Problem	https://leetcode.com/problen	Medium		Amazon, Google , Netflix , Intuit , Walmart Labs , Sa	
	☐	3	Implement a Phone Directory	https://leetcode.com/problen	Medium		Google	
	☐	4	Implement a Trie	https://leetcode.com/problen	Medium		Google, Amazon, Apple, Meta, Uber, Nvidia , Samsu	
	☐	5	Longest String with All Prefix	https://leetcode.com/problen	Medium		Google	
	☐	1	Flood Fill Algorithm	https://leetcode.com/problen	Easy		Samsung , Flipkart ,SAP Labs , Ola , amazon, micros	
	☐	2	BFS	https://leetcode.com/problen	Medium		Samsung , Intuit, Accolite , Amazon	
	☐	3	DFS	https://leetcode.com/problen	Medium		Amazon, Meta , Google, Visa, Adobe, Microsoft, App	
	☐	4	Detect cycle in undirected using BFS	https://leetcode.com/problen	Medium		Amazon, Meta , Google, Visa, Adobe, Microsoft, App	
	☐	5	Detect cycle in undirected using DFS	https://leetcode.com/problen	Medium		Google , Meta , microsoft, Inmobi , Amazon	
	☐	6	Detect cycle in directed using BFS	https://leetcode.com/problen	Medium		Google , Meta , microsoft, Inmobi , Amazon	

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GRAPH	☐	7	Detect cycle in directed using DFS	https://leetcode.com/problem	Medium		Google, Amazon, Meta ,Microsoft, Apple, uber, Adol	
	☐	8	Topological Sorting (DFS)	https://leetcode.com/problem	Medium		Flipkart, Morgan Stanley, Accolite, Amazon , Microsc	
	☐	9	Prim's Algorithm (MST)	https://leetcode.com/problem	Medium		Flipkart, Morgan Stanley, Accolite, Amazon , Microsc	
	☐	10	Bellman Ford Algorithm	https://leetcode.com/problem	Medium		Amazon, Google, Meta, Salesforce, Intuit , Linkedin , I	
	☐	11	Floyd Warshall Algo	https://leetcode.com/problem	Medium		flipkart, microsoft	
	☐	12	Kosaraju Strongly Connected Components	https://leetcode.com/problem	Medium		Amazon, Meta , Stripe, Airbnb , Oracle, DE Shaw, Ap	
	☐	13	Check Bi-partite Graph	https://leetcode.com/problem	Medium		Amazon , Adobe, Directi,Uber,DE shaw, Microsoft	
	☐	14	Number of Islands	https://leetcode.com/problem	Medium		Amazon , Adobe, Directi,Uber,DE shaw, Microsoft	
	☐	15	Rotten Oranges	https://leetcode.com/problem	Medium		Sharechat + Directi , Amazon , microsoft	
	☐	16	01 Matrix	https://leetcode.com/problem	Medium		Google , uber, Meta, microsoft, Amazon	
	☐	17	Course Schedule I & II	https://leetcode.com/problem	Medium		Amazon, Google, Zoho, Oracle, Samsung, Meta , int	
	☐	18	Alien Dictionary	https://leetcode.com/problem	Hard		Google, amazon, Linkedin ,Doordash, Flipkart, Adobe	
	☐	19	Cheapest Flights within K Stops	https://leetcode.com/problem	Medium		Google , amazon , meta , adobe, uber	
	☐	20	Clone a Graph	https://leetcode.com/problem	Medium		Amazon , Microoft , Meta , Linkedin , Oracle , Apple	
	☐	21	Most Stones Removed	https://leetcode.com/problem	Medium		Microsoft Flipkart Pinterest Meta Uber Samung	
	☐	22	Number of Provinces	https://leetcode.com/problem	Medium		Paytm	
	☐	23	Number of Ways to Arrive at Destination	https://leetcode.com/problem	Medium		Phonepe , Google, Apple, Microsoft, Amazon	
	☐	24	Topoplogical Sorting (BFS)	https://leetcode.com/problem	Hard		Sprinklr, Google, Amazon, Meta	
	☐	25	Dijkstra's Algorithm	https://leetcode.com/problem	Hard		Google, Amazon , Meta	
	☐	26	Kruskal's Algorithm (MST)	https://leetcode.com/problem	Hard		Airbnb , Citadel, Uber, Google, Meta , Airbnb	
DP	☐	1	Buy & Sell Stocks I	Problem Link	Easy		Amazon D-E-Shaw Directi Flipkart Goldman Sachs In	
	☐	2	0-1 Knapsack	Problem Link	Medium		Amazon Directi Flipkart GreyOrange Microsoft Mob	
	☐	3	Target Sum Subset	Problem Link	Medium		Myntra ,Microsoft, Meta , Amazon	
	☐	4	Unbounded Knapsack	Problem Link	Medium		Amazon , Google	
	☐	5	Coin Change	Problem Link	Medium		Adobe, Salesforce, Amazon, Google, Microsoft, Intu	
	☐	6	Longest Common Subsequence	Problem Link	Medium		Amazon, Microsoft , Meta , TCS, Oracle	
	☐	7	Longest Common Substring	Problem Link	Medium		Morgan Stanley , Amazon , Microsoft	
	☐	8	Edit Distance	Problem Link	Medium		Goldman Sachs, Paypal , Salesforce , Atlassian, Intuit	
	☐	9	Longest Increasing Subsequence	Problem Link	Medium		Amazon, Google,Linkedin , Cisco , TCS , Meta , Cisc	
	☐	10	Palindromic Partitioning (MCM)	Problem Link	Medium		Google + Goldman Sachs + Citrix , TCS, Meta, Adobe	
	☐	11	Max Product Subarray	Problem Link	Medium		Amazon, Goldman Sachs , Apple,Adobe, TCS, Uber	
	☐	12	Unique BSTs	Problem Link	Medium		Amazon + Google	
	☐	13	Longest Palindromic Subsequence	Problem Link	Medium		Google , Microsoft , Tower Research Capital, Oracle	
	☐	14	Buy & Sell Stocks II	Problem Link	Medium		Walmart + Flipkart	
	☐	15	Nth Catalan	Problem Link	Medium		Amazon , Google, Meta , Microsoft , Infosys	
	☐	16	Minimum Partitioning	Problem Link	Hard		Oracle, Phonepe, Adobe , Apple	
	☐	17	Wildcard Pattern Matching	Problem Link	Hard		Linkedin , DE Shaw , Adobe, Uber, Meta,Amazon	
	☐	18	Rod Cutting	Problem Link	Hard		Uber, samsung, Arcesium , Google, amazon, meta	
	☐	19	Egg Dropping	Problem Link	Hard		Microsoft + Amazon + Ola , Salesforce, Apple	
	☐	20	Longest Bitonic Subsequence	Problem Link	Hard		Amazon D-E-Shaw Goldman Sachs Google Hike Ma	
	☐	21	MCM	Problem Link	Hard		Amazon, microsoft, google, meta	
GREEDY	☐	1	Assign Cookies	Problem Link	Easy		Amazon , Accenture , Uber , Adobe, Meta , Google	
	☐	2	Indian Coins	Problem Link	Medium		Accolite Amazon Morgan Stanley Oracle Paytm San	
	☐	3	Fractional Knapsack	Problem Link	Medium		Microsoft	
	☐	4	maximum length of pair chain	Problem Link	Medium		Amazon , bloomberg, swiggy , adobe , apple	
	☐	5	Activity Selection	Problem Link	Medium		Meta, amazon , google , microsoft	
	☐	6	Job Scheduling	Problem Link	Hard		amazon , microsoft , airbnb, adobe,phonepe	